BRUHATH BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

1st and Final Bill

Measurement Sheet

Name of Work: Improvements to roads and main and cross roads of Balaji layout and surrounding areas in Ward No.8 Kodigehalli

Name of Agency: Sri. Byate Gowda S N

Estimate Cost : Rs.60.00 Lakhs

Job Code No: 008-20-000072

Work Order No: BBMP/EE/BTP/WO/138/2020-21 dtd:19.11.2020

Measurement reocrded on: 15/02/2021

Sl No	Description	Nos	L	B	D	Qty	Rate / Unit	Amount
1	Removing and resetting of footpath slab						Sqm	
	Qty as per Pre-Measurement recorded vide E-MB 01 is					170.10	217.00	36911.70
2	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202						Cum	
	Qty as per Pre-Measurement recorded vide E-MB 07 is					136.50	990.00	135135.00
3	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3						Cum	
	Qty as per Pre-Measurement recorded vide E-MB 02 is					93.60	143.00	13384.80
4	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and. trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.specification. No. KBS 2.1 (a) / 2.3.1						Cum	
	Qty as per Pre-Measurement recorded vide E-MB 8 is					234.00	274.00	64116.00
5	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications, specification. No. KBS 2.1(a)/2.3.5						Cum	
	Qty as per Pre-Measurement recorded vide E-MB 03 is					440.40	274.00	120669.60
6	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Ranker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH-100/ Chapter 1						Cum	
	Qty as per Pre-Measurement recorded vide E-MB 9 is					904.50	99.12	89654.04

No	Description	Nos	L	B	D		/ Unit	Amount
7	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4: cement @ 180kgs, with 40mm and down size graded granite metal coarse aggre @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, co layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2						Cum	
	Qty as per Pre-Measurement recorded vide E-MB 5 is					175.05	5619.00	983605.95
8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with 'super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6						Cum	
	Raft							
	For RCC drain							
	1st Cross Westernside Balaji Layout							
	LHS	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	20.00	1.00	0.15	3.00		
	1st Cross Easternside Balaji Layout							
	LHS	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	5.00	1.00	0.15	0.75		
	RHS	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	5.00	1.00	0.15	0.75		
	2nd Cross Easternside Balaji Layout							
	LHS	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	6.00	1.00	0.15	0.90		
	RHS	1	30.00	1.00	0.15	4.50		
		1	30.00	1.00	0.15	4.50		
		1	6.00	1.00	0.15	0.90		
	Side Wall							
	For RCC drain							
	1st Cross Westernside Balaji Layout							
	LHS	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	20.00	0.15	0.75	4.50		
	1st Cross Easternside Balaji Layout							
	LHS	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	5.00	0.15	0.75	1.13		
	RHS	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	5.00	0.15	0.75	1.13		
	2nd Cross Easternside Balaji Layout							
	LHS	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	6.00	0.15	0.75	1.35		
	RHS	2	30.00	0.15	0.75	6.75		
		2	30.00	0.15	0.75	6.75		
		2	6.00	0.15	0.75	1.35		
	Raft							

128.25

No	Description	Nos	L	B	D	Qty	Rate / Unit	Amount
	For Culverts							
	1st Cross Westernside Balaji Layout							
		2	5.90	1.60	0.20	3.78		
	1st Cross Easternside Balaji Layout							
		1	6.10	1.60	0.20	1.95		
	2nd Cross Easternside Balaji Layout							
		1	6.20	1.60	0.20	1.98		
	1st cross to 2nd cross road							
		1	6.00	1.60	0.20	1.92		
	Side Wall							
	For Culverts							
	1st Cross Westernside Balaji Layout							
		4	5.90	0.30	0.90	6.37		
	1st Cross Easternside Balaji Layout							
		2	6.10	0.30	0.90	3.29		
	2nd Cross Easternside Balaji Layout							
		2	6.20	0.30	0.90	3.35		
	1st cross to 2nd cross road							
		2	6.00	0.30	0.90	3.24	25.89	960600.48
	Total Executed Quantity					**154.14**	**6232.00**	960575.55
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2						Sqm	
	Qty as per Pre-Measurement recorded vide E-MB 6 is					**1141.20**	394.00	449632.80
10	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - do - TMT bars Fe 500						MT	
	Qty as per Pre-Measurement recorded vide E-MB 4 is					**9.25**	78158.00	722961.50
11	Suuply and fixing precast reinforced concrete slab 10cm thick including cost of reinforcement as per design and drawing, material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface, complete with all leads and lift conveyance charges, labour charges inclusive of cost of materials.						Sqm	
	Qty Vide Item no 1 Missing Slabs Page 1					73.44		
	1st Cross Westernside Balaji Layout							
	LHS	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	20.00	0.90		18.00		
	1st Cross Easternside Balaji Layout							
	LHS	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	5.00	0.90		4.50		
	RHS	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	5.00	0.90		4.50		
	2nd Cross Easternside Balaji Layout							
	LHS	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	6.00	0.90		5.40		

321.84

No	Description	Nos	L	B	D	Qty	Rate / Unit	Amount
	RHS	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	6.00	0.90		5.40	59.40	
	Total Executed Quantity					381.24		
	Limited to Schedule B Quantity					378.00	1997.00	754866.00
12	Suuply and fixing precast reinforced concrete slab 23cm thick including cost of reinforcement as per design and drawing, material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface, complete with all leads and lift conveyance charges, labour charges inclusive of cost of materials.						Sqm	
	Covering Slabs for Culverts							
	1st Cross Westernside Balaji Layout	2	5.90	1.50		17.70		
	1st Cross Easternside Balaji Layout	1	6.10	1.50		9.15		
	2nd Cross Easternside Balaji Layout	1	6.20	1.50		9.30		
	1st cross to 2nd cross road	1	6.00	1.50		9.00		228465.00
	Total Executed Quantity					45.15		
	Limited to Schedule B Quantity					45.00	5077.00	5077.00
13	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)						Cum	
	12th Cross Bhadrappa Layout	1	30.00	(4.80+5.00)/2	0.15	22.05		
		1	30.00	(5.00+5.20)/2	0.15	22.95		
		1	30.00	(5.20+5.00)/2	0.15	22.95		
	Cross road							
		1	30.00	(5.00+5.20)/2	0.15	22.95		
		1	30.00	(5.20+5.20)/2	0.15	23.40		
		1	4.00	(5.20+5.00)/2	0.15	3.06		
	Total Executed Quantity					117.36		633438.00
	Limited to Schedule B Quantity					117.00	5414.00	5077.00
14	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.						Nos	
	1st Cross Westernside Balaji Layout							
	LHS	1	30.00	/0.45		66.67		
		1	30.00	/0.45		66.67		
		1	20.00	/0.45		44.44		
							177.78	

No	Description	Nos	L	B	D	Qty	Rate / Unit	Amount
	1st Cross Easternside Balaji Layout							
	LHS	1	30.00	/0.45		66.67		
		1	30.00	/0.45		66.67		
		1	5.00	/0.45		11.11		
	RHS	1	30.00	/0.45		66.67		
		1	30.00	/0.45		66.67		
		1	5.00	/0.45		11.11		
	2nd Cross Easternside Balaji Layout							
	LHS	1	30.00	/0.45		66.67		
		1	30.00	/0.45		66.67		
		1	6.00	/0.45		13.33		
	RHS	1	30.00	/0.45		66.67		
		1	30.00	/0.45		66.67		
		1	6.00	/0.45		13.33	582.22	
	Total Executed Quantity					**760.00**		
	Limited to Schedule B Quantity					**753.33**	449.00	338245.17
15	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.						Sqm	
	Qty as per Pre-Measurement recorded vide E-MB 14 is					**135.60**	41.00	5559.60
16	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8						Sqm	
	1st Cross Westernside Balaji Layout							
	LHS	1	30.00	0.40		12.00		
		1	30.00	0.40		12.00		
		1	20.00	0.40		8.00		
	1st Cross Easternside Balaji Layout							
	LHS	1	30.00	0.40		12.00		
		1	30.00	0.40		12.00		
		1	5.00	0.40		2.00		
	RHS	1	30.00	0.40		12.00		
		1	30.00	0.40		12.00		
		1	5.00	0.40		2.00		
	2nd Cross Easternside Balaji Layout							
	LHS	1	30.00	0.40		12.00		
		1	30.00	0.40		12.00		
		1	6.00	0.40		2.40		
	RHS	1	30.00	0.40		12.00		
		1	30.00	0.40		12.00		
		1	6.00	0.40		2.40		
	Total Executed Quantity					**136.80**		
	Limited to Schedule B Quantity					**135.60**	88.00	11932.80
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803						Sqm	
	12th Cross Bhadrappa Layout							
		2.5	30.00	0.10		7.50		
		2.5	30.00	0.10		7.50		
		2.5	30.00	0.10		7.50		
						22.50		

No	Description	Nos	L	B	D	Qty	Rate / Unit	Amount
	Cross road							
		2	2.5	30.00	0.10	7.50		
		2	2.5	30.00	0.10	7.50		
		2	2.5	4.00	0.10	1.00	16.00	
	Total Executed Quantity					38.50		
	Limited to Schedule B Quantity					32.50	472.00	15340.00

15/2/21

Total : 5564518.14
12% GST : 667742.21
G.Total : 6232260.65
Round off → 6232000.00

Asst Engineer
Ward No 08

Asst Executive Engineer
Kodigehalli Sub-division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore